Q.1.WAP to find sum of all integers greater than 100 and less than 200 that are divisible by 7.
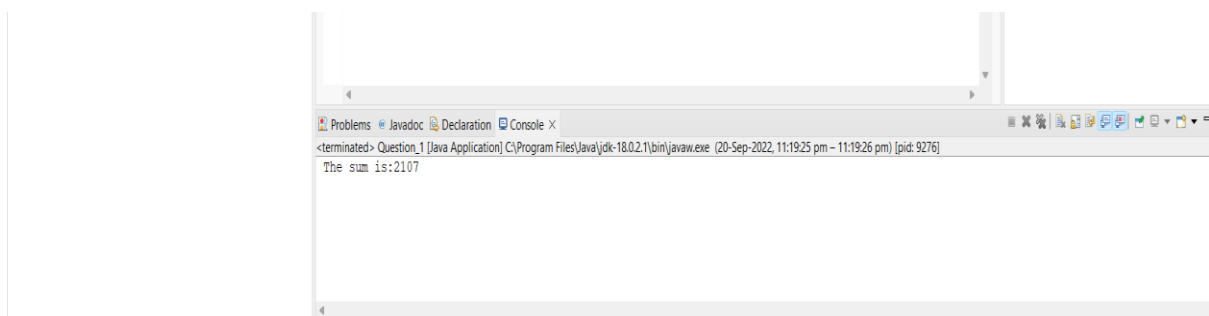
```java
package Lab2;

public class Question_1 {

    public static void main(String[] args) {
        // TODO Auto-generated method stub



int i, sum=0;


for(i=101;i<200;i++)
{
        if(i%7==0)
        {
        sum=sum+i;
}
        }
System.out.println(" The sum is:" +sum);
}
}
```

Q.2.WAP ask three numbers from user ank print the greatest number among three.


```java
package Lab2;

import java.util.Scanner;

public class Q_2 {

    public static void main(String[] args) {
        // TODO Auto-generated method stub
int a,b,c;

Scanner r= new Scanner( System.in);

System.out.println("Enter the first number");
a=r.nextInt();
System.out.println("Enter the second number");
b=r.nextInt();
System.out.println("Enter the third number");
c=r.nextInt();
if(a>b && a>c );
System.out.println("first number is greater");

 if(b>a && b>c)
System.out.println("second number is greater");


else
System.out.println       ("third number is greater ");
        }
}
```
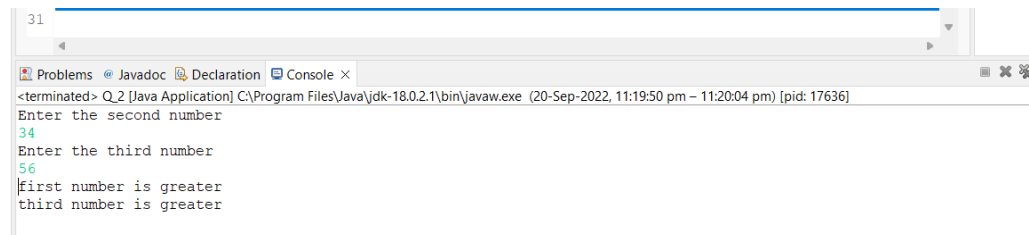
```
31
```

Problems @ Javadoc Declaration Console ×
<terminated> Q_2 [Java Application] C:\Program Files\Java\jdk-18.0.2.1\bin\javaw.exe (20-Sep-2022, 11:19:50 pm – 11:20:04 pm) [pid: 17636]
```
Enter the second number
34
Enter the third number
56
first number is greater
third number is greater
```

Q.4. WAP to check whether an alphabet is vowel or consonant.

```java
package Lab2;

public class Q_4 {

    public static void main(String[] args) {

            // TODO Auto-generated method stub

        char var ='A';

switch (var)
{
case 'a':
case 'e':
case 'i':
case 'o':
case 'u':
case 'A':
case 'E':
case 'I':
case 'O':
case 'U':
System.out.println("variable is a vowel");
break;
default:
    System.out.println("variable is consonant");

    }
    }
}
```

```
    31

   Problems  @ Javadoc   Declaration   Console ×
<terminated> Q_4 [Java Application] C:\Program Files\Java\jdk-18.0.2.1\bin\javaw.exe (20-Sep-2022, 11:20:21 pm – 11:20:21 pm) [pid: 22724
variable is a vowel
```

Q.5. WAP using if else if a number is positive or negative.

```java
package Lab2;

public class Q_5 {

    public static void main(String[] args) {
            // TODO Auto-generated method stub

        int x =-10;

        if(x>0)
        System.out.println("Number is Positive");
```
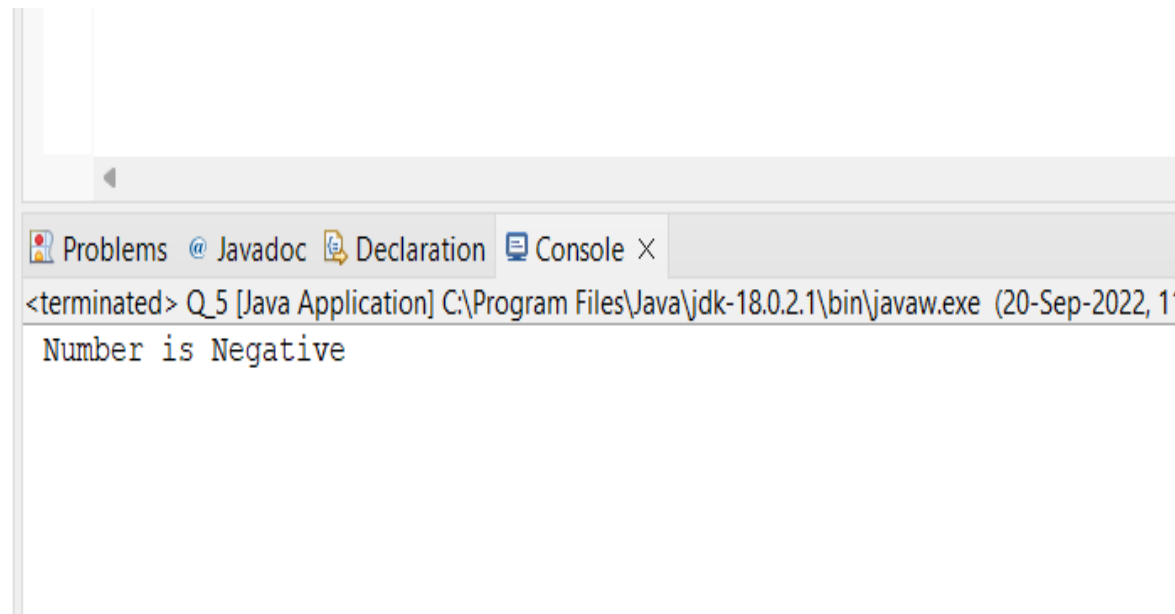
```java
        else
            
            System.out.println(" Number is Negative");
        
    }
}
```

Number is Negative

Q.6. WAP for swapping two numbers without using third variables.

```java
package Lab2;

import java.util.Scanner;

public class Q_6 {

    public static void main(String[] args) {
        // TODO Auto-generated method stub
Scanner r=new Scanner (System.in);

System.out.println("Enter the first number");
        int n1=     r.nextInt();

        System.out.println("Enter the second number");
        int n2=     r.nextInt();


n1=n1+n2;
n2=n1-n2;
n1=n1-n2;

System.out.println("swapped numbers are :"  +n1+ " " +n2);


    }

}
```
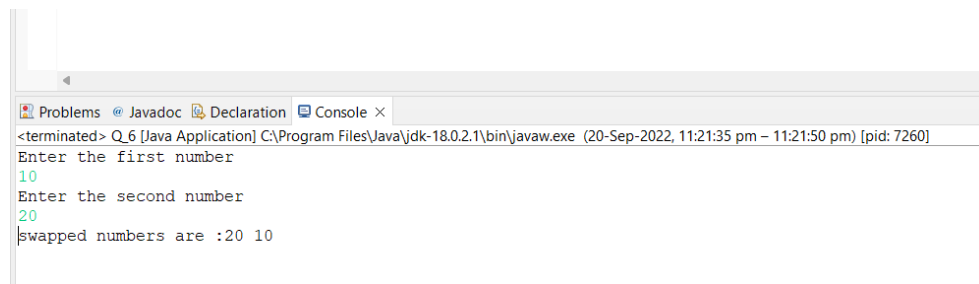
Problems @ Javadoc Declaration Console X
<terminated> Q_6 [Java Application] C:\Program Files\Java\jdk-18.0.2.1\bin\javaw.exe (20-Sep-2022, 11:21:35 pm – 11:21:50 pm) [pid: 7260]
Enter the first number
10
Enter the second number
20
swapped numbers are :20 10

Q.8.WAP to print even numbers between 10 to 20.

```java
package Lab2;

public class Q_8 {

    public static void main(String[] args) {
        // TODO Auto-generated method stub


int i, n;

        for( i=6; i<=9 ; i++)
        {
        n =2*i;
```

```java
System.out.println("          "    +n);


      }

      }
}
```

```
12
14
16
18
```

Q.10. WAP to reverse a given digit 123.

```java
package Lab2;

public class Q_10 {

      public static void main(String[] args) {

      // TODO Auto-generated method stub

int i;

for(i=123;i!=0;i=i/10)
{
int rem=(i%10);

System.out.println(rem);
}
}
```

```
3
2
1
```